### LITTLE COLORADO RIVER BASIN

### 09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ

**LOCATION**.--Lat 34°54′04″, long 110°15′17″, in NE<sub>1/4</sub>SE<sub>1/4</sub> sec. 6, T.17 N., R.20 E., Navajo County, Hydrologic Unit 15020008, on left bank just upstream from diversion dam, 5.4 mi west of Holbrook, 5.7 mi southeast of Joseph City, and 8.5 mi downstream from Puerco River.

**DRAINAGE AREA**.--12,384 mi<sup>2</sup>, of which 347 mi<sup>2</sup> are noncontributing.

PERIOD OF RECORD .-- July 1973 to current year (daily discharge only for those days on which instantaneous discharge exceeds 500 ft3/s).

**REVISED RECORDS**.--WDR AZ-88-1: Drainage area.

**GAGE.**—Water-stage recorder, crest-stage gage, and concrete diversion dam. Datum of gage is 5,031.10 ft above sea level (U.S. Army Corps of Engineers benchmark). From Oct. 1, 1990, to Mar. 19, 1993, on right bank at same datum.

**REMARKS**.—Records fair except for estimated daily discharges, which are poor. Published record includes only those days when instantaneous discharge over the crest of the dam exceeds 500 ft<sup>3</sup>/s. Diversions above station for irrigation of about 23,000 acres, diversions at dam on right bank of most low flows for irrigation of about 1,500 acres in vicinity of Joseph City. Some regulation by reservoirs; combined capacity of principal reservoirs, about 91,400 acre-ft.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 25,400 ft<sup>3</sup>/s Dec. 19, 1978, gage height, 7.64 ft, from rating curve extended above 7,400 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 6.82 ft.

Time

EXTREMES OUTSIDE PERIOD OF RECORD.—A discharge of 60,000 ft<sup>3</sup>/s was determined for peak of Sept. 19, 1923, at Holbrook (see prior records for sta 09397000, Little Colorado River at Holbrook, for this peak and other peaks 1905–6, 1949–73).

Discharge (ft<sup>3</sup>/s) Gage height (ft)

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date

				Sept. 20		unknown		*5,090	*5.30a			
a-from floo	odmark											
a-110111 1100	uuiiiaik											
			DISCHARGE,	CUBIC	FEET PER	SECOND,	WATER	YEAR OCTOBER	2003 TO	SEPTEMBER	2004	
						DAIL	Y MEAN	VALUES				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY .	JUN	JUL	AUG	SEP
1												
2												
3												
4	295											
5												
6												
7												
8												
9												
10												
11												
12												
13												
14										63		
15										1400	450	
										1100	150	
16										e221	e808	
17											e644	
18												
19												e900
20												e669
20												6003
21											e600	
22												
											e269	
23												
24												
25											221	
0.5												
26												
27												
28												
29												e1420
30												e419
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

e Estimated

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.

**INSTRUMENTATION**. -- Automatic pumping sampler since October 1981.

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**REMARKS.**— Suspended-sediment discharge computed from sample data and by interpretation of a sample based suspended-sediment and streamflow discharge curve. Record for days when instantaneous discharge over the crest of the dam exceeds 500 ft3/s.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUI. AUG SEP ------------------------------------------------------------------------5 --------------------------------e216000 --------------------------------e37500 --------------e228000 ------10 ------76900 1180000 ---------12 ---601000 13 e180000 14 15 143000 103000 16 34600 e12300 ---------------17 18 ---19 ------------------------------9370 20 24500 26500 20700 21 37900 32000 22 23 ------------------------5130 2.4 ---------------------------------25 2.6 e165000 ---------------------------------28 e92100 29 e23500 30 40300 31 ---------

MAX MIN

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3			16900								e1550	
4											108000	11600
5												
6				33500								
7				e128000								
8												
9												
10												
11												410000
12											6970	e39600
13												
14												
15											197000	
16											38000	
17												
18												
19												
20												
21												
22												
23												
24												
25											14300	
26											31900	
27											62200	
28											e6330	
29										e65900	147000	
30												
31												
- <del>-</del>												
MAX												
MIN												

e Estimated

e Estimated

# WATER-QUALITY RECORDS

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14										14200		
15										441000	135000	
16										e41600	e282000	
17											e199000	
18												
19												e463000
20												e250000
21											e216000	
22											e67800	
23												
24												
25											34000	
26												
27												
28												
29												e483000
30												e95700
31												
MAX												
MIN												

e Estimated

SUSPENDED SEDIMENT CONCENTRATION, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6											68100	
7											67000	
8												
9												38500
10												17800
10												17000
11												57300
12												41400
13												29400
14												25700
15												21300
15												21300
16										39400		10100
17												
18												
19												8450
20											41900	13900
21											66100	13900
22												14800
23												5660
24												
25												
26												
27										49600		
28										40700		
29										33100		
30											37200	
31												
MAX										-	-	-
MIN										-	-	-

# WATER-QUALITY RECORDS

SUSPENDED SEDIMENT CONCENTRATION, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3			11500								6150	
-			11300									
4											91300	15400
5												
6				10500								
7				82000								
8												
9												
10												
10												
11												91600
12											14800	52900
13												
14												
15											888000	
13											888000	
16											48700	
17												
18												
19												
20												
20												
21												
22												
23												
24												
25											10300	
23											10300	
26											20000	
27											31200	
28											10000	
29										38400	75700	
30												
31												
21												
MAX			_	_						_	_	_
MIN			_	_						_	_	_

SUSPENDED SEDIMENT CONCENTRATION, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14										5420		
15										112000	62100	
16										e49300	e126000	
17											e106000	
18												
19												e71000
20												e100000
21											e108000	
22											e89900	
23												
24												
25											46000	
26												
27												
28												
29												e78100
30												e74600
31												
MAX										-	-	-
MIN										-	-	-

e Estimated